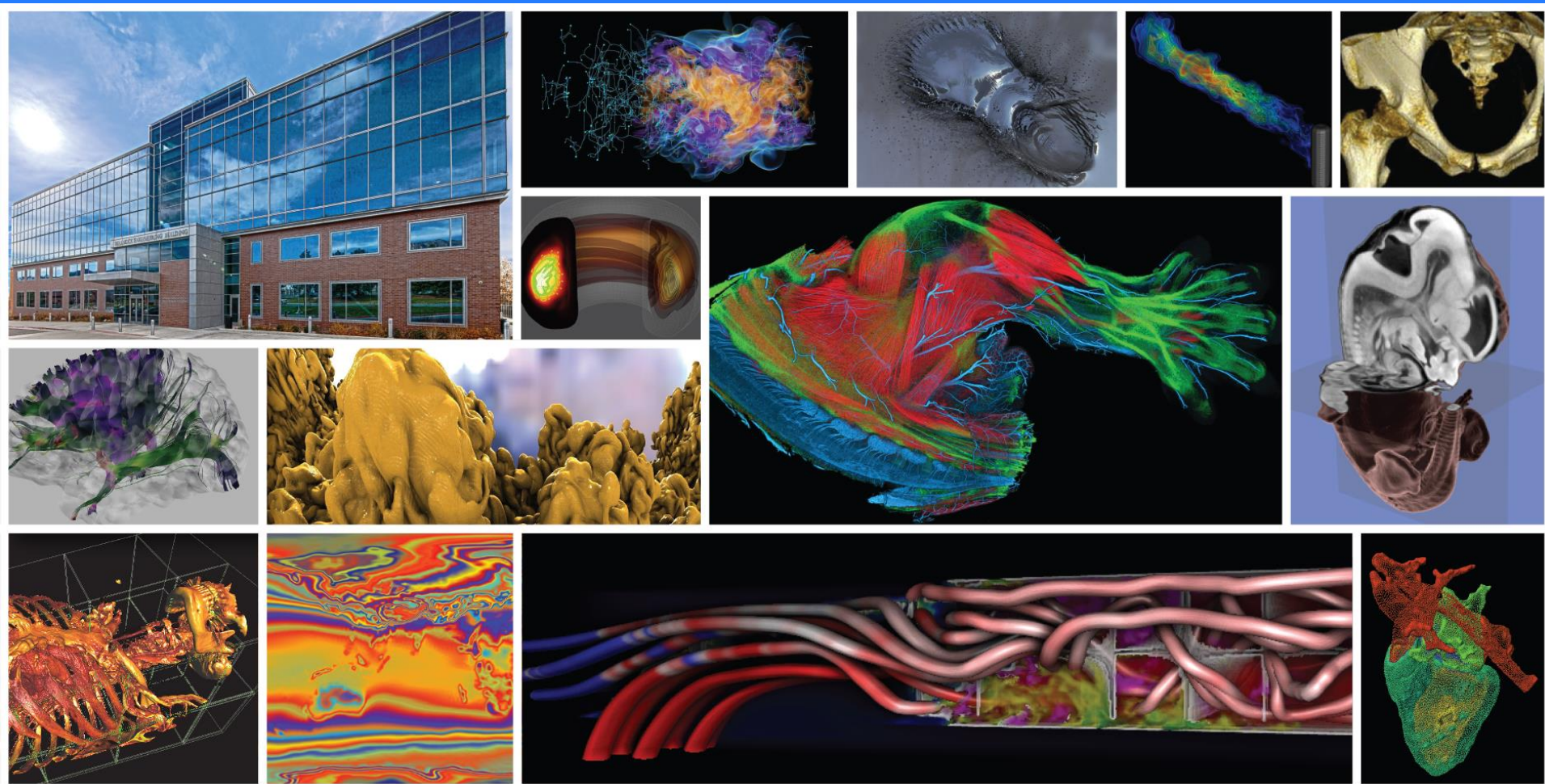


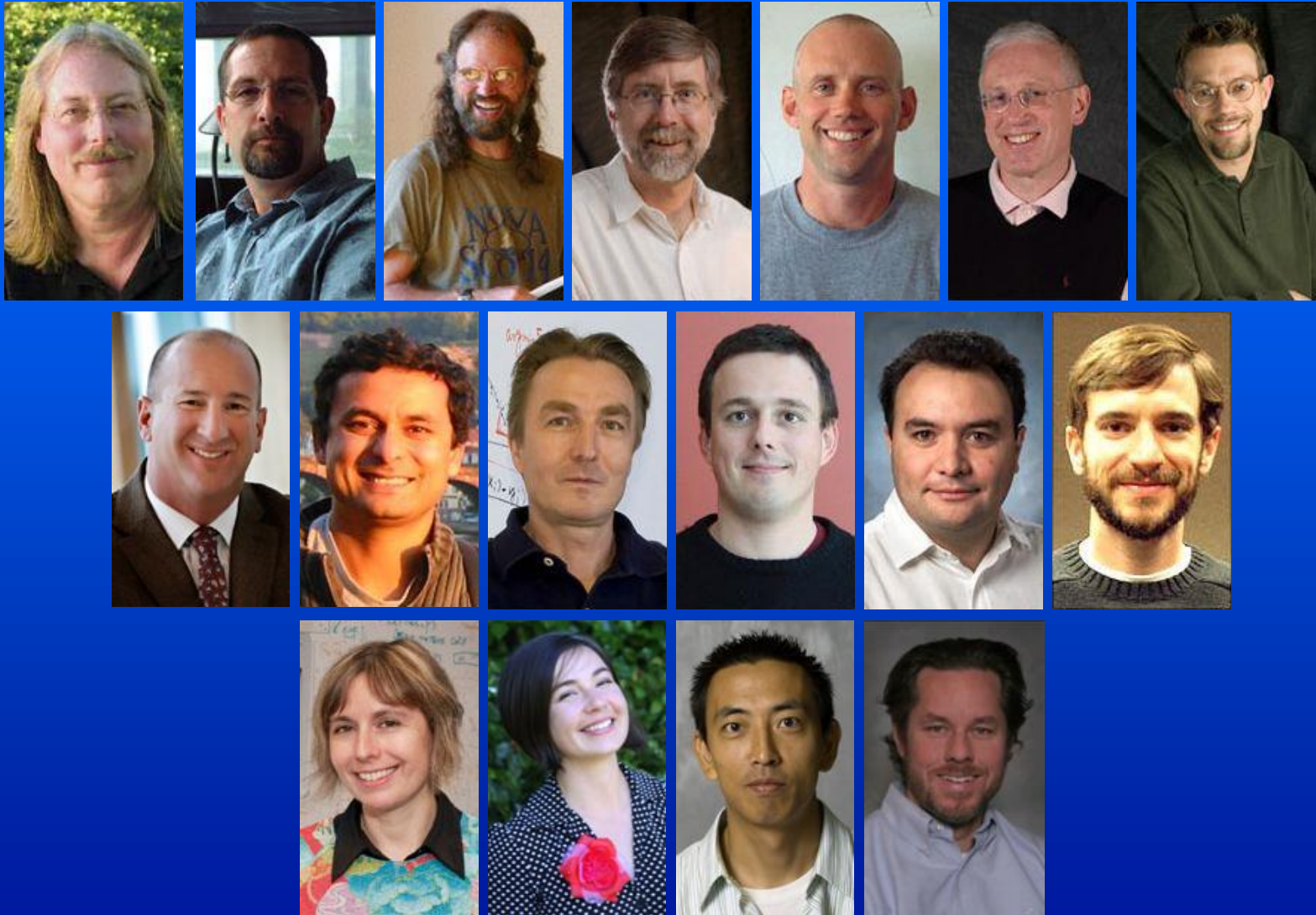
# NSF-NITRD Visualization Workshop



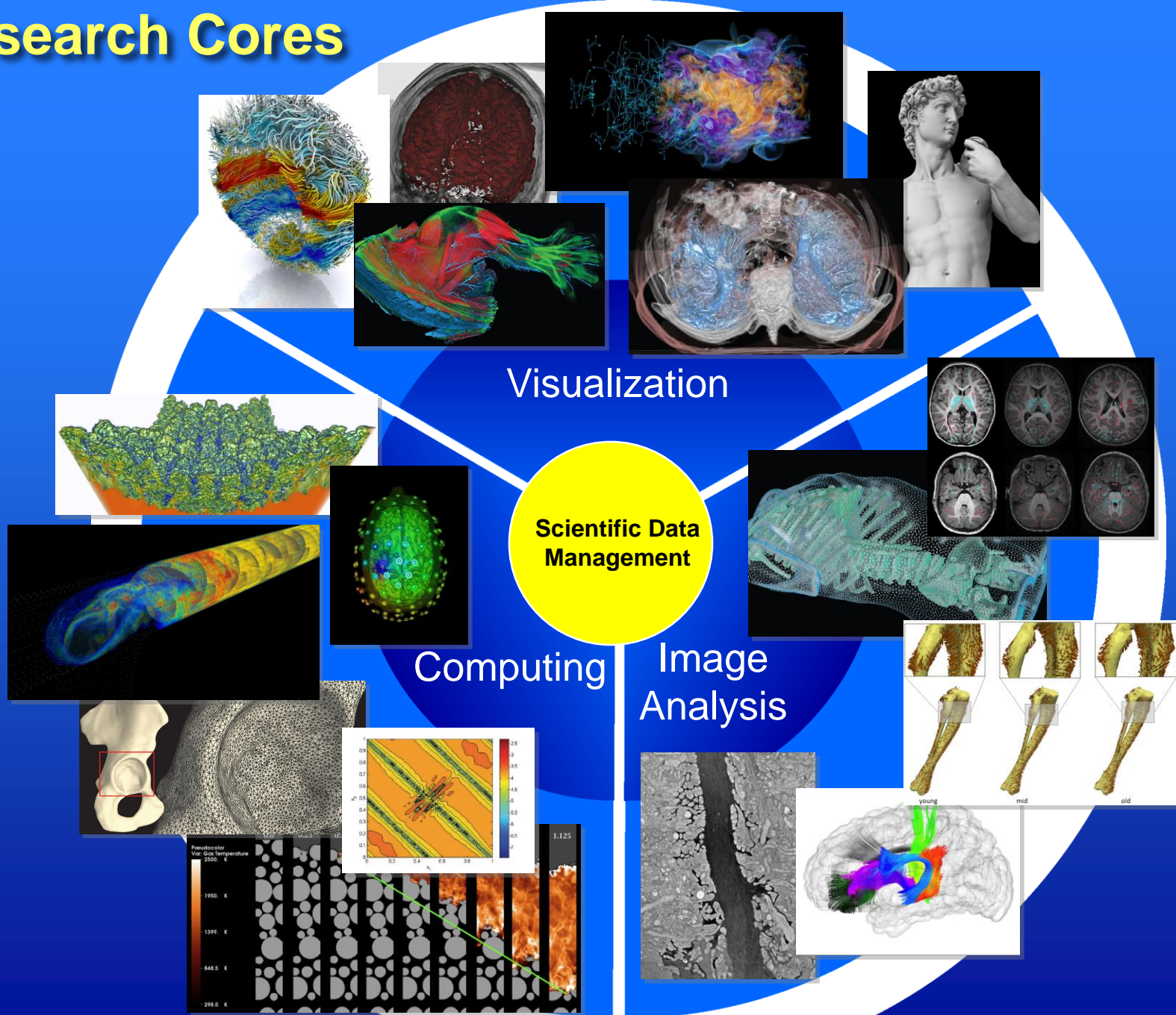
**Chris Johnson**  
**Scientific Computing and Imaging Institute**  
**University of Utah**

# SCI Institute Faculty

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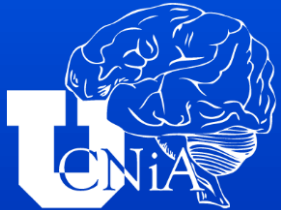
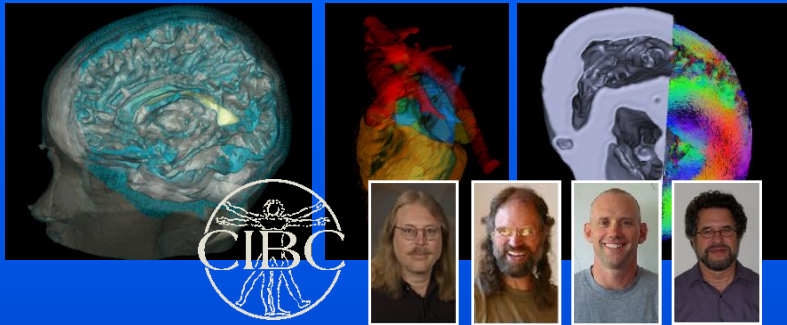
# Research Cores



# Centers We Direct



**NIH/NIGMS Center for Integrative  
Biomedical Computing**



**Utah Center for Neuroimage Analysis**



**UTAH** Center for  
Computational Earth Sciences



**Center for Extreme Data Management,  
Analysis, and Visualization**

**CEDMAV**

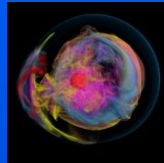


# National Centers We are Affiliated With

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**SDAV**

Scalable Data Management, Analysis  
and Visualization



NIH NAMIC



IAMCS  
Institute for Applied Mathematics  
and Computational Science

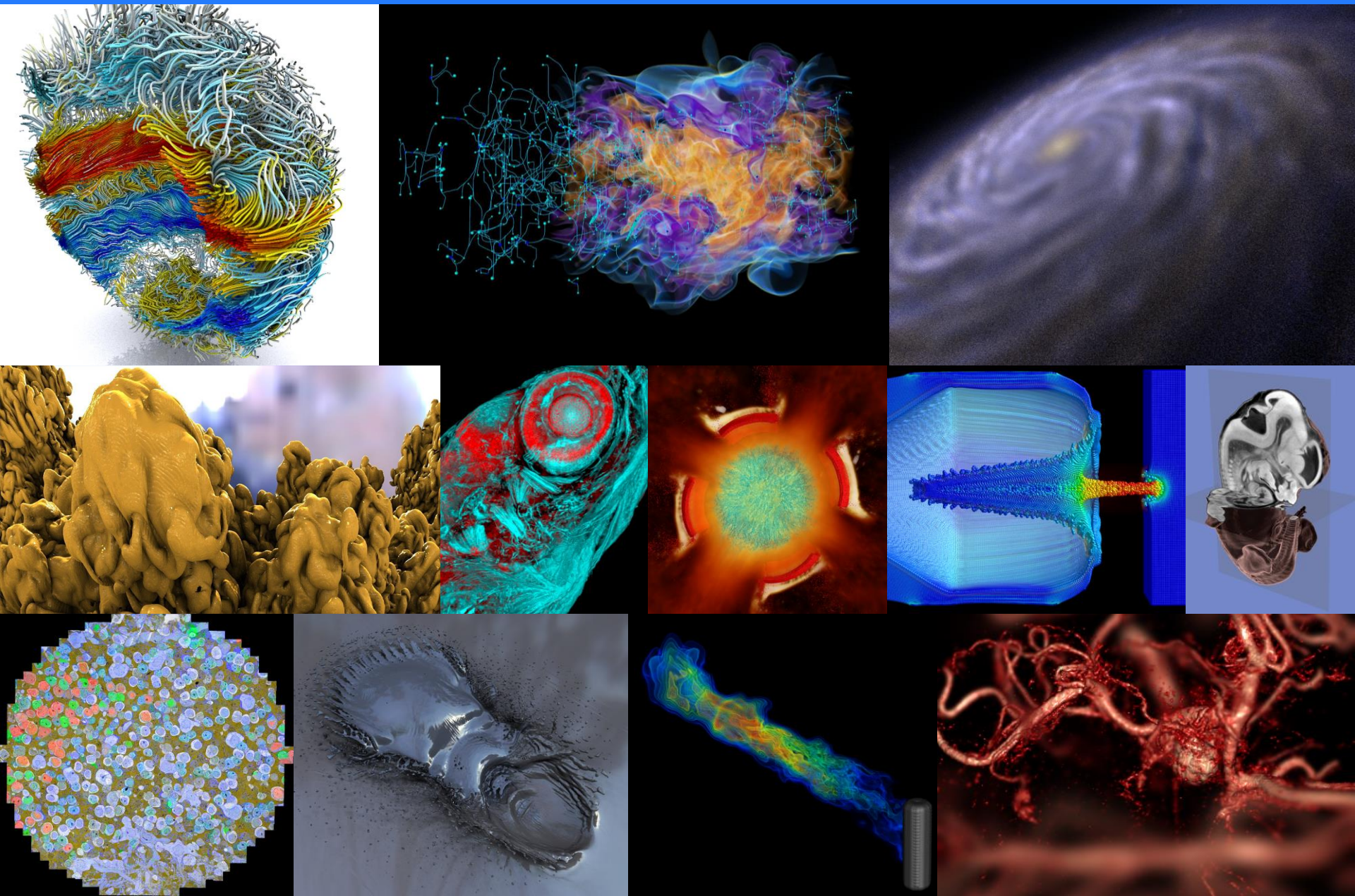
CDC Decision-Support  
for Infectious Disease  
Epidemiology

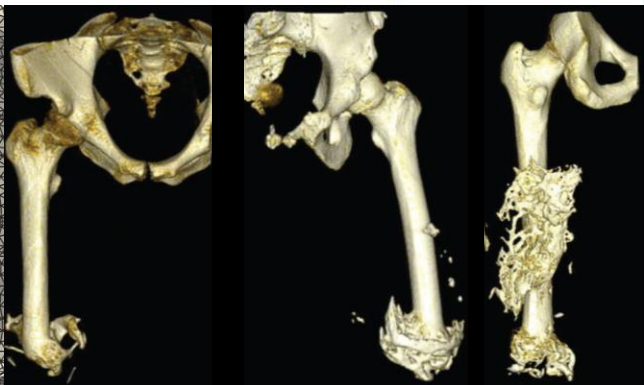
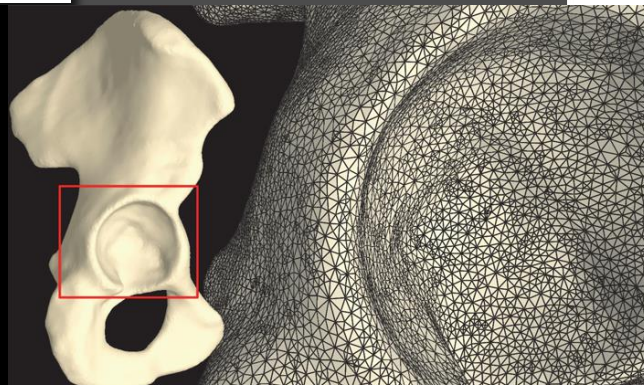
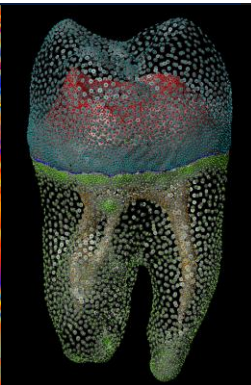
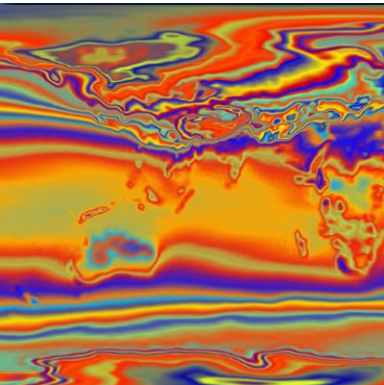
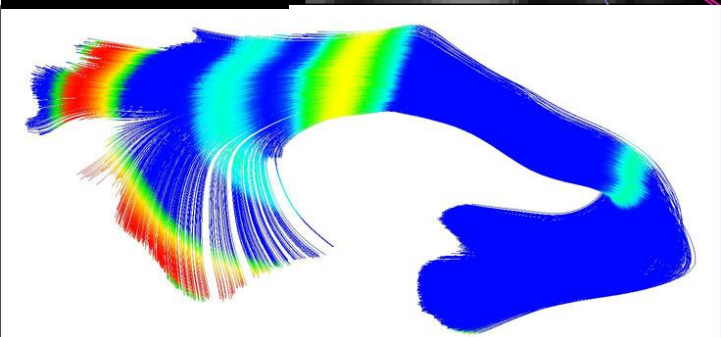
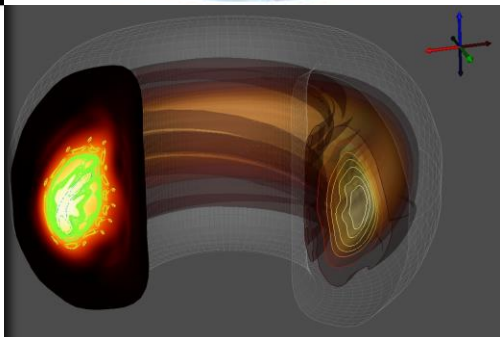
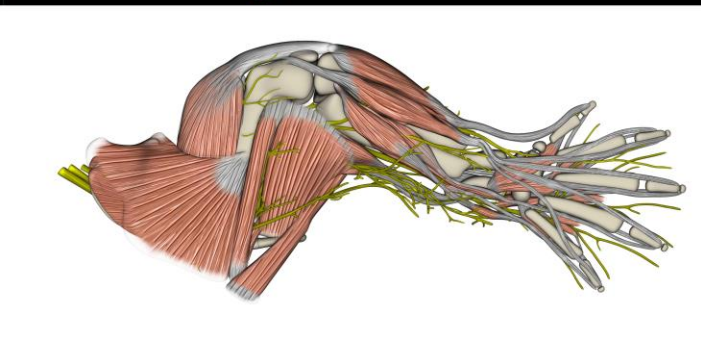
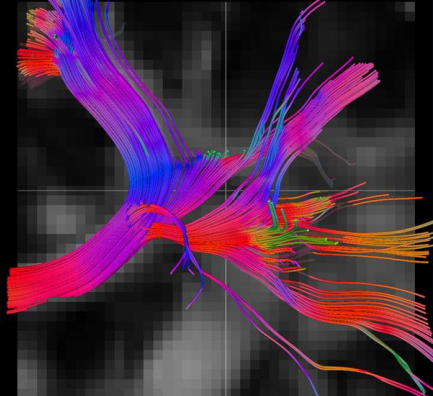
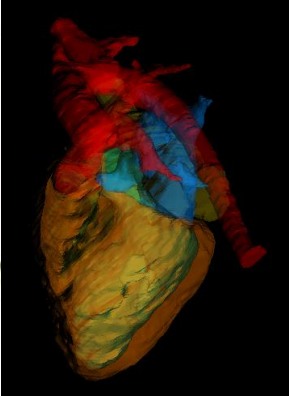
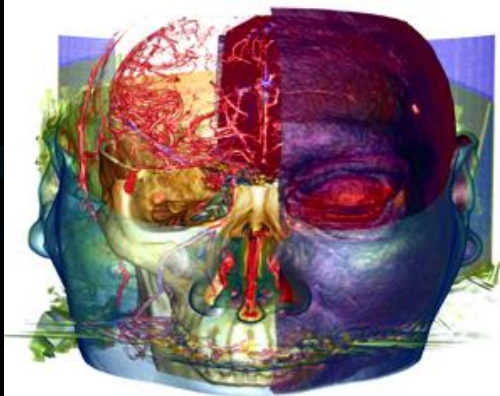
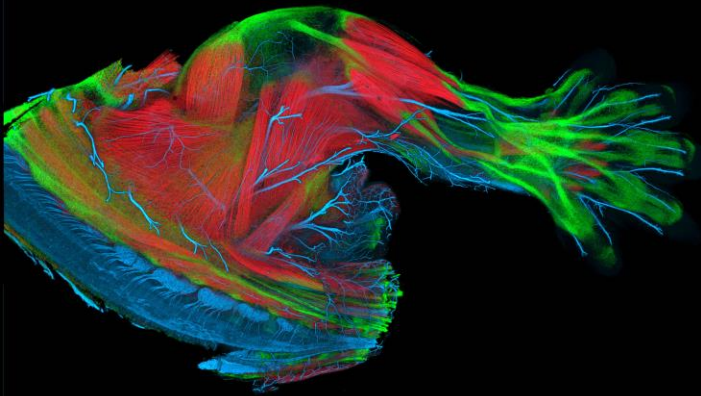


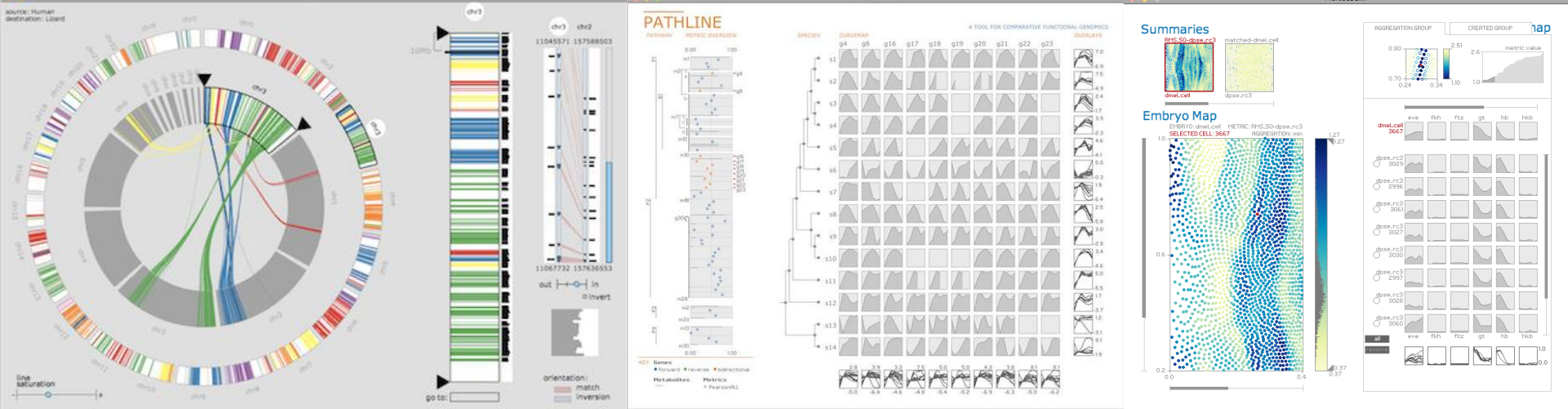
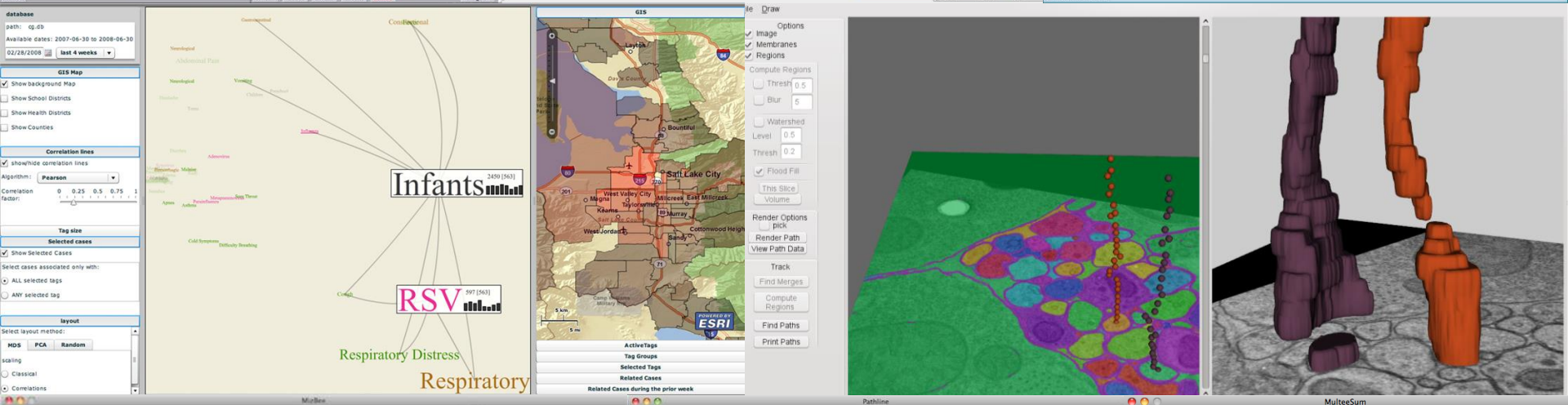
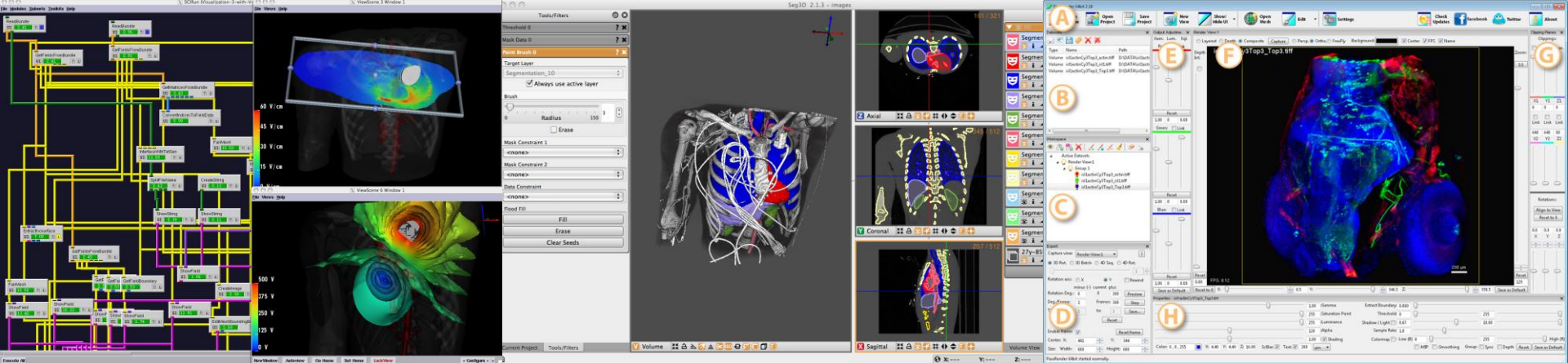
**EXaCT**

Center for Exascale Simulation  
of Combustion in Turbulence

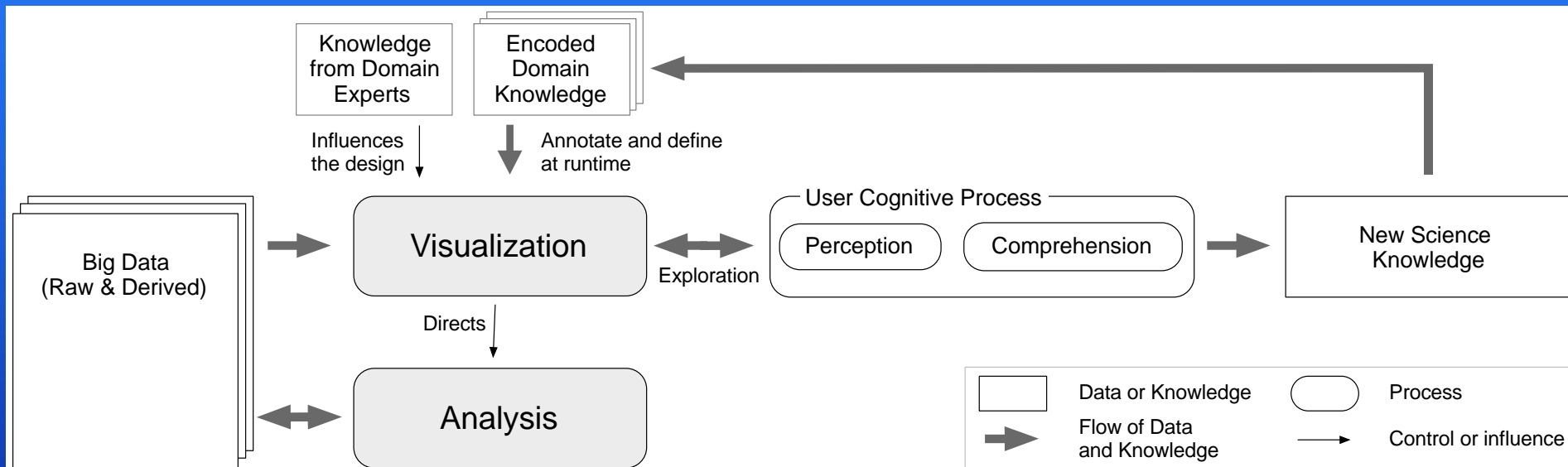
# New Visual Analysis Techniques







# Current Challenges



# My Wish List

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**What is the Problem to be Solved by Whom and for What Purpose?**

**Use Techniques from ALL AREAs that are Appropriate for the Task(s)**

**Prototype, Test, and Quantify Effectiveness**

**What are the Best Abstractions – Borrowed or New or Both?**

**HCI and Interface Design Targeted to Solve the Problem**

**Start Representing Error and Uncertainty – It Does Not Go Away Just Because You Ignore It**

**Perceptual and Comprehension Issues**

**Scalable Visualization – Stop Creating Techniques that Only Work at Small Scale**

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